

In the Specification

Please amend the specification of this application as follows:

Rewrite paragraph [0005] as follows:

--[0005]        In order to decrease the number of partial products generated during the multiplication of the multiplier binary number and the multiplicand binary number, some known multipliers may employ a Booth encoding algorithm or method. Reducing the number of partial products may increase the speed of the multiplier. In order to reduce the number of partial products, a known Booth encoding algorithm may ~~recode~~ recode a radix-2 multiplier Y into a radix-4 multiplier Z with an encoded digital set, {-2, -1, 0, 1, 2}, such that the number of partial products may be reduced by one half.--